



Cheat Sheet: Using Git

Using Git (Prerequisites)

- On your RVC
 - If using an Editor, select **View | Toggle Hidden Files**, so hidden (.) files are visible
 - In your root of your project folder, create a new file named `.gitignore`
 - Search the web for “.gitignore for nodejs” and copy it into the `.gitignore` file
 - Here is a very simple example:

```
node_modules
logs
*.log
npm-debug.log*
```
- When done, copy the `.gitignore` file to the internal folder
 - Both the internal and external folders need a copy of `.gitignore`

Using Git

- The following slides provide steps on using GitHub
- Additionally, the last two optional slides show how to use Google Cloud Source Repos
 - You could choose to add Google Cloud repos as a second remote

Using Git (GitHub)

- Prerequisites:
 - Join GitHub if you are not already a member (www.github.com)
 - Create a public repository for each project, example [events-app-internal](#) in your GitHub account
 - Do NOT add anything (e.g., a ReadMe)
 - Make a note of the repo address (copy and save it somewhere)

Using Git (GitHub) (continued)

- Create a GitHub personal access token:
 - From the github.com page, In the upper-right corner, click your profile photo, then click **Settings**
 - In the left sidebar, click **Developer settings**
 - In the left sidebar, click **Personal access tokens**
 - Click **Generate new token**
 - Provide a **Note** for your token of **classtoken**
 - Set the expiration to 7 days
 - Select the **Repo** scope
 - Click **Generate token**
- Copy the generated token and save it somewhere secure. You cannot view it again.
 - You will use the token as your GitHub password when using the **git** command
 - You will need it multiple times

Using Git (GitHub) (continued)

- Switch to
 - Open a new terminal tab
 - Change to the root project folder and execute the following commands:
 - `git config --global user.email "your_email_on_github"`
 - `git config --global user.name "your_github_user_name"`
 - Verify with: `git config --global --list`

Using Git (GitHub) (continued)

- Change to your folder
 - `git init`
 - `git add .`
 - `git commit -m "Initial commit"`
 - `git remote add origin your-git-internal-repo-address`
 - `git push -u origin master`
 - You will be asked for your GitHub user id and password (*Use your token as the password*)

Making Changes to Code


- Go make a change to your code
- Change to the service folder with the change
`git add .`
`git commit -m "My first change"`
 - This commits it to your local repo
 - The remote repo has not been updated yet
- `git push origin master`
 - This pushes the changes to the master branch of the remote repo named origin

Implementing Twelve-Factor App

- As a group, revisit how case study application conforms to the twelve factors
 - Refine the slide in your Google Slides document

Optional: Using Git (Google Cloud Source Repos)

For Reference –
SKIP FOR NOW

- Switch to the browser with Google Cloud Shell
- Open a new Cloud Shell tab by clicking the + button 
 - Change to the sample-master folder and execute the following commands:
 - `export PROJECT=$(gcloud info --format='value(config.project)')`
 - `git config --global user.email "(gcloud config get-value core/account)"`
 - `git config --global user.name "Your-Name-Here"`
- Create two source repos (for internal and external):
 - `gcloud source repos create events-app-external`
 - Type Y if asked to enable API
 - `gcloud source repos create events-app-internal`
- Configure Git to use gcloud for authentication
 - `git config credential.helper gcloud.sh`
- You have just created two source repos on Google Cloud and configured Git
 - On the next slide, you will save your code to the appropriate repo

Optional: Using Git (Google Cloud Source Repos) (continued)

For Reference –
SKIP FOR NOW

- In the same Google Cloud Shell tab:
 - Change to the internal folder
 - `git config credential.helper gcloud.sh`
 - `git commit -m "Initial commit"`
 - `git remote add second https://source.developers.google.com/p/$PROJECT/r/events-app-internal`
 - `git push -u second master`
- Change to the external folder
 - `git config credential.helper gcloud.sh`
 - `git commit -m "Initial commit"`
 - `git remote add second https://source.developers.google.com/p/$PROJECT/r/events-app-external`
 - `git push -u second master`